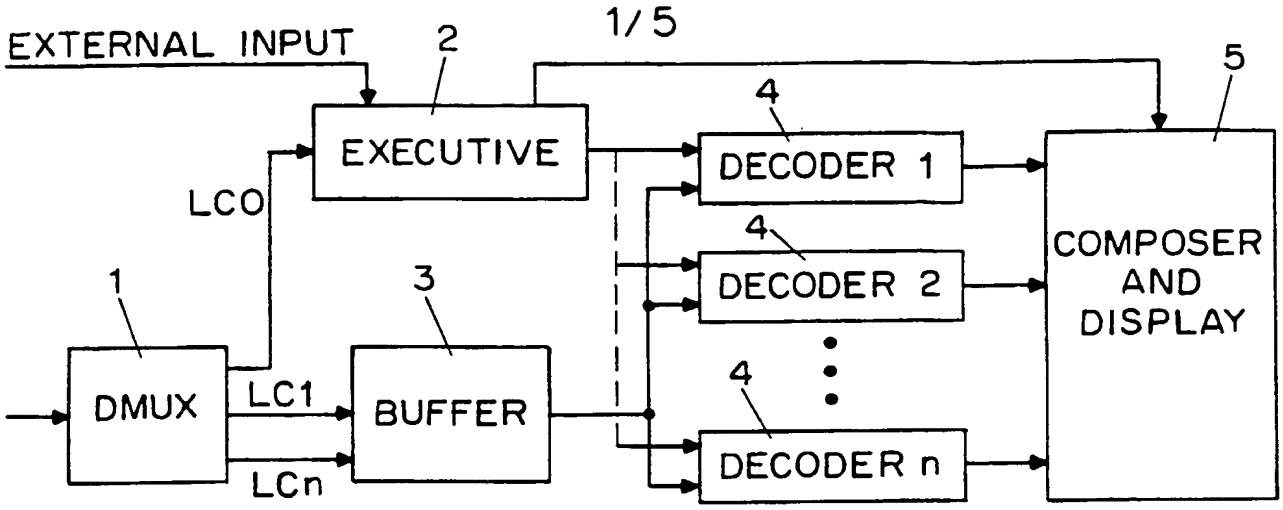

FIG. 1

OBJECT ID
DTS
PTS
LTS
OCR
COMPOSITION PARAMETERS

FIG. 2a

COMP. OBJECT ID
PTS
LTS
OBJECT COUNT
COMPOSITION PARAMETERS
OBJECT ID
DTS
OCR
COMPOSITION PARAMETERS

OBJECT ID
CI–PI
PRIORITY
ETS
VOP TYPE (I, P, B)
OBJECT DATA

FIG. 2b

OBJECT ID
DTS
OCR
COMPOSITION PARAMETERS

FIG. 2c

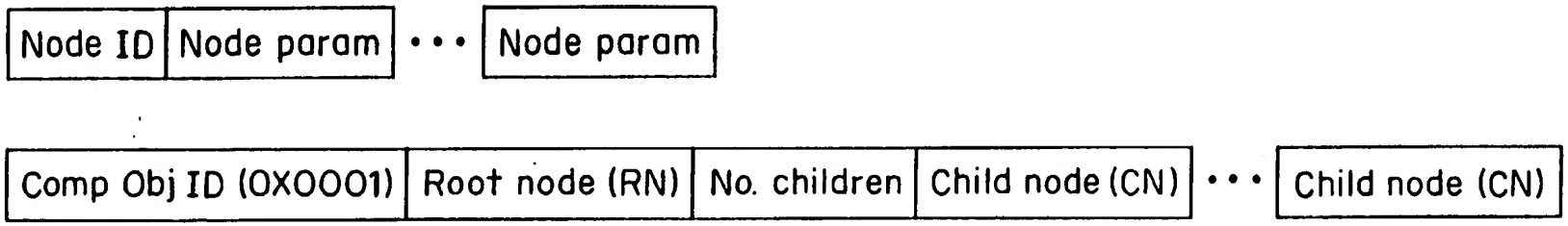

FIG. 3

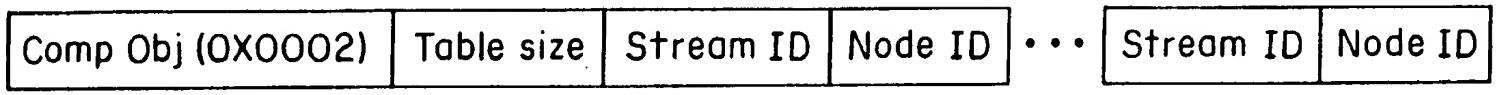

FIG. 4

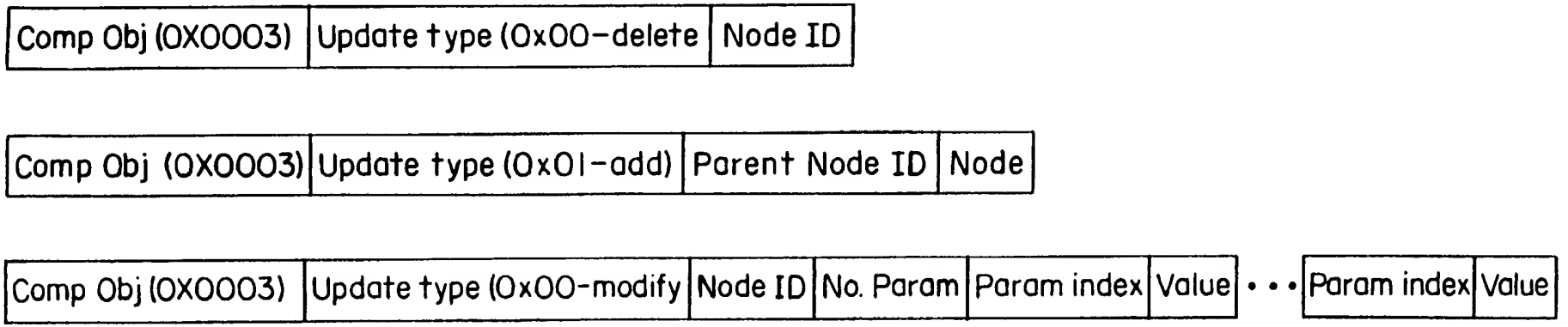

FIG. 5

SUBSTITUTE SHEET (RULE 26)

09/36743

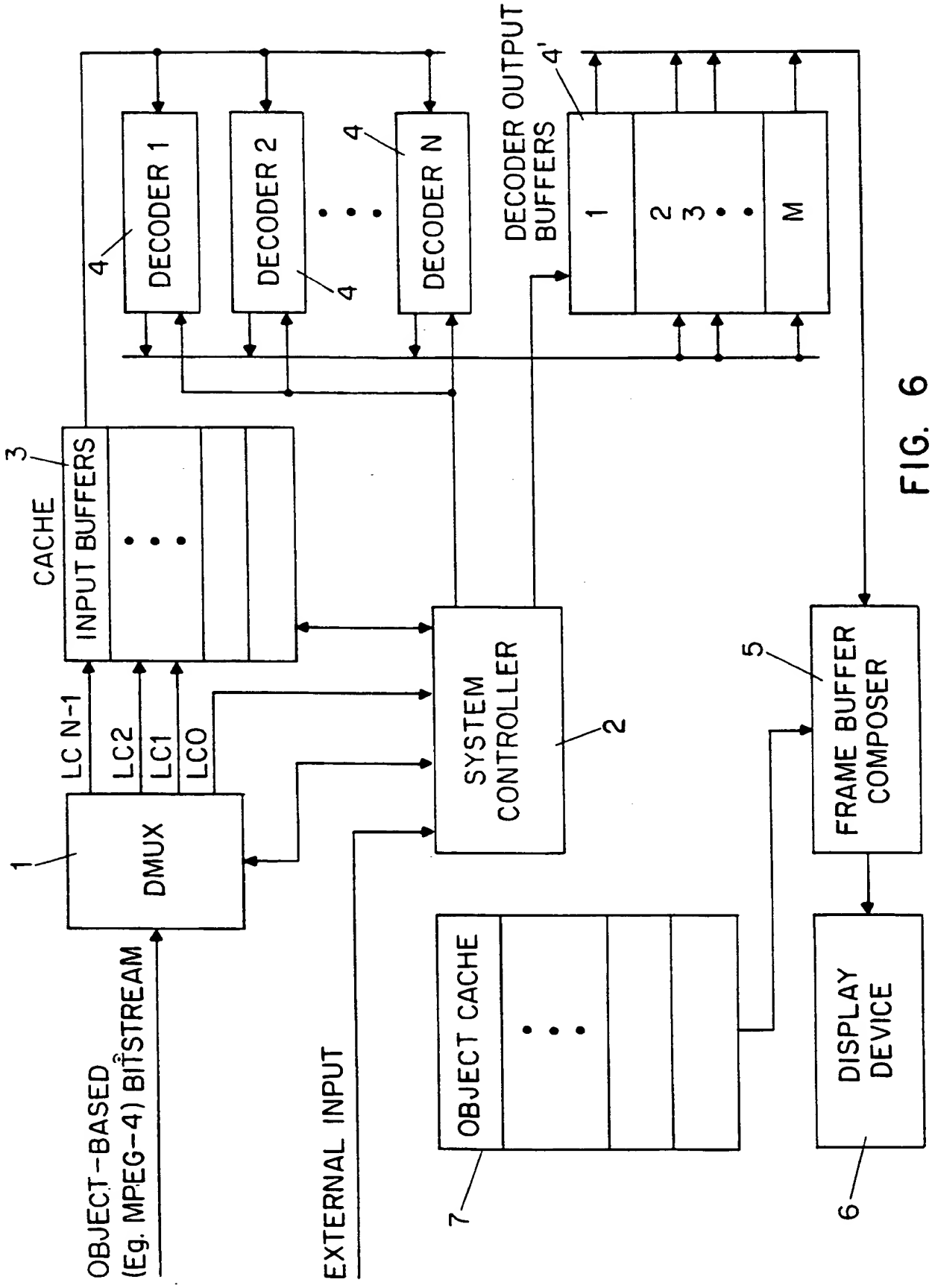
DECODER 1
DECODER 2
DECODER N
4
4
4
4'
DECODER OUTPUT BUFFERS
1
2
3
M
3
CACHE
INPUT BUFFERS
LC N-1
LC2
LC1
LC0
1
DMUX
SYSTEM CONTROLLER
2
5
FRAME BUFFER COMPOSER
OBJECT-BASED (Eg. MPEG-4) BITSTREAM
EXTERNAL INPUT
OBJECT CACHE
7
DISPLAY DEVICE
6

FIG. 6

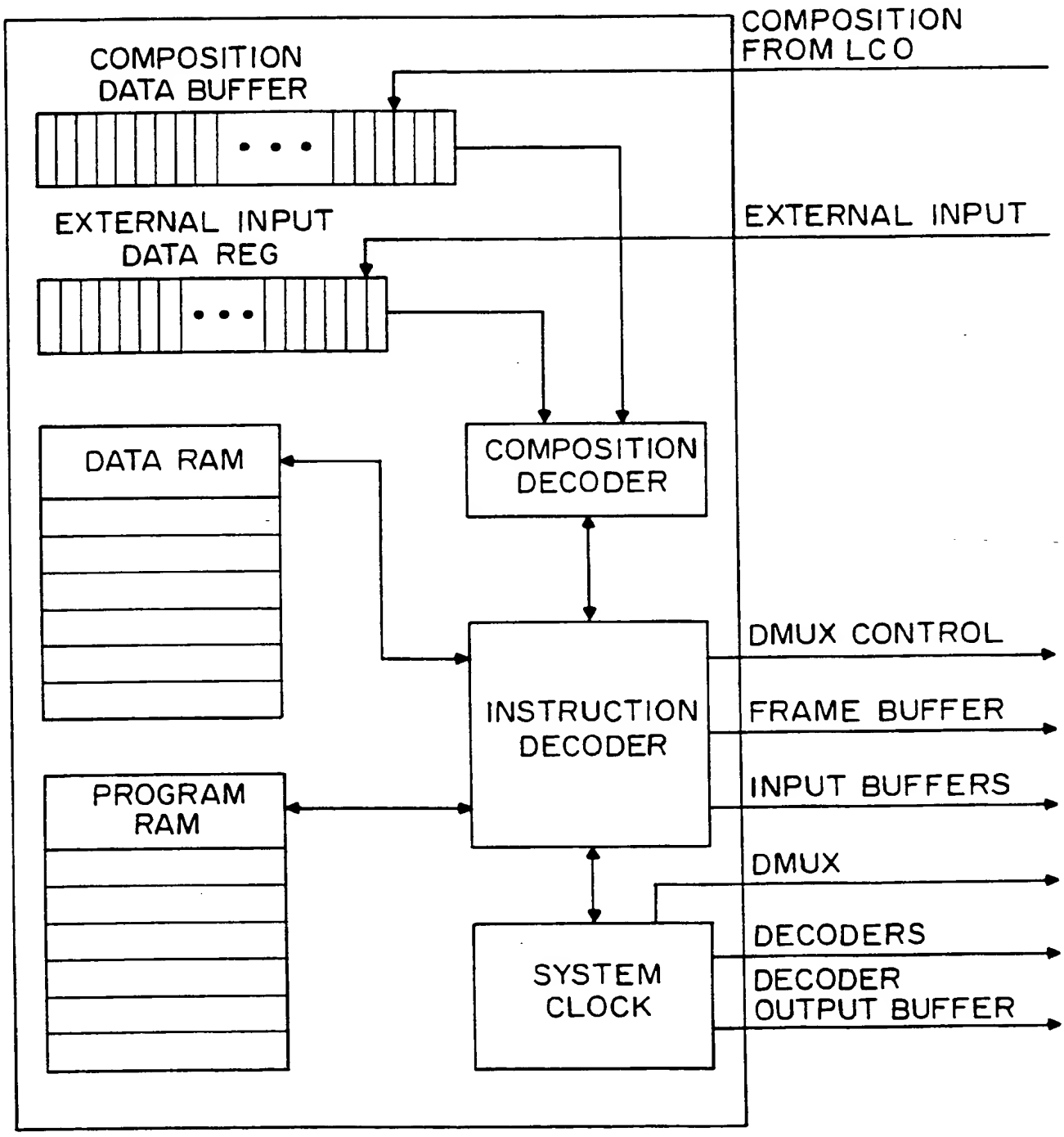
COMPOSITION FROM LCO
COMPOSITION DATA BUFFER
EXTERNAL INPUT
EXTERNAL INPUT DATA REG
DATA RAM
COMPOSITION DECODER
DMUX CONTROL
INSTRUCTION DECODER
FRAME BUFFER
INPUT BUFFERS
PROGRAM RAM
DMUX
DECODERS
SYSTEM CLOCK
DECODER OUTPUT BUFFER

FIG. 7

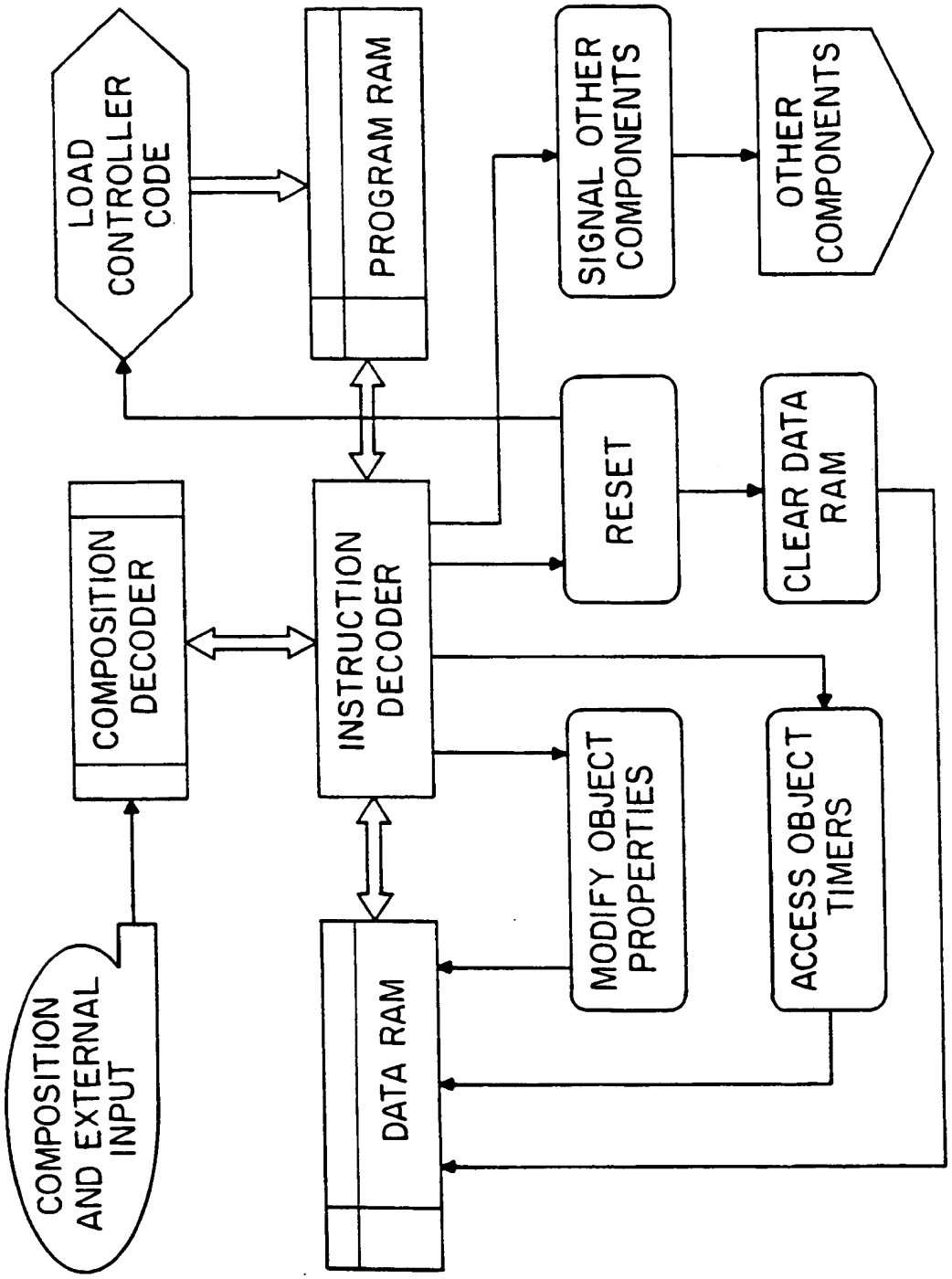
LOAD CONTROLLER CODE
PROGRAM RAM
SIGNAL OTHER COMPONENTS
OTHER COMPONENTS
RESET
CLEAR DATA RAM
COMPOSITION DECODER
INSTRUCTION DECODER
MODIFY OBJECT PROPERTIES
ACCESS OBJECT TIMERS
COMPOSITION AND EXTERNAL INPUT
DATA RAM

FIG. 8